



Installation Manual Volvo Penta - Engine



Welcome Aboard

Polar DC Generators and Volvo Penta marine engines are used all over the world today. They are used in all possible operating conditions for professional as well as leisure purposes.

Polar DC Marine is becoming a symbol of reliability, technical innovation, performance and long service life. We also believe that this is what you demand and expect of your Polar DC Marine generator.

Please read this operator's manual thoroughly and consider the advice we provide on operation and maintenance before you cast off on your voyage so that you will be ensured of fulfilling your expectations.

Installation

Marine Diesel Engines D1-13, D1-20, D1-30 D2-40, D2-55, D2-75

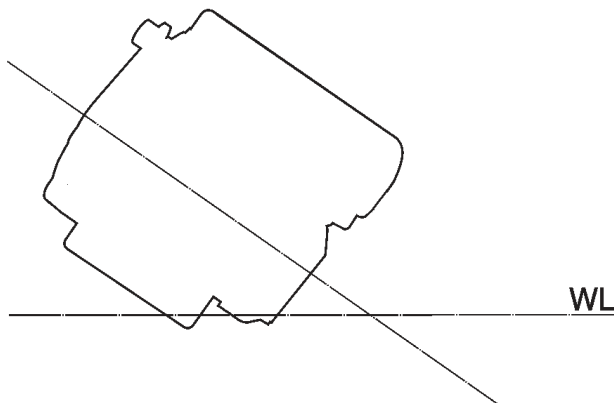
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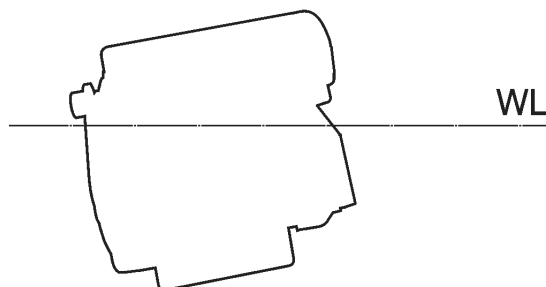
Engine installation

Engine inclination

Flywheel down



Flywheel up



Max. inclination

| Engine | Static | | Under way | | |
|----------|---------------|-------------|---------------|-------------|----------|
| | Flywheel down | Flywheel up | Flywheel down | Flywheel up | Sideways |
| D1-ser. | 15° | 0° | 25° | 0° | 35° |
| D2-40 | 15° | 0° | 25° | 0° | 35° |
| D2-55/75 | 15° | 0° | 35° | 10° | 35° |

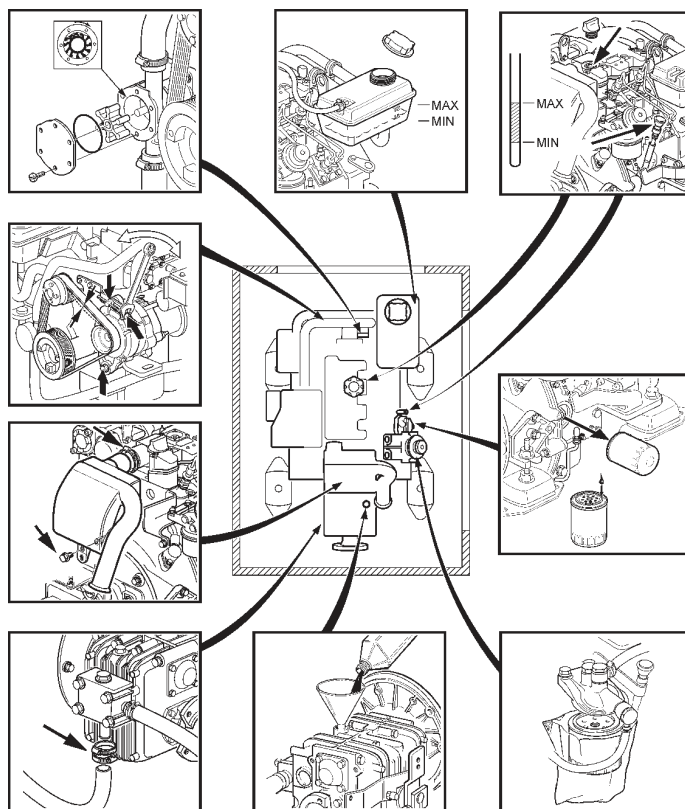
Service accessibility

When you design the engine installation, always pay attention to the access needed for correct engine service. Also ensure that the complete engine can be removed without damage to the boat structure.

There must also be sufficient space for the sound proofing material.

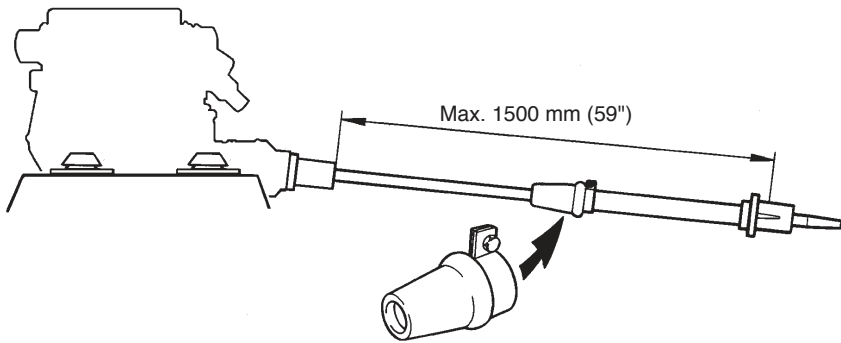
NOTE! See installation drawing for space required to lift out engine.

NOTE! Minimum recommended access two sides, front and starboard.

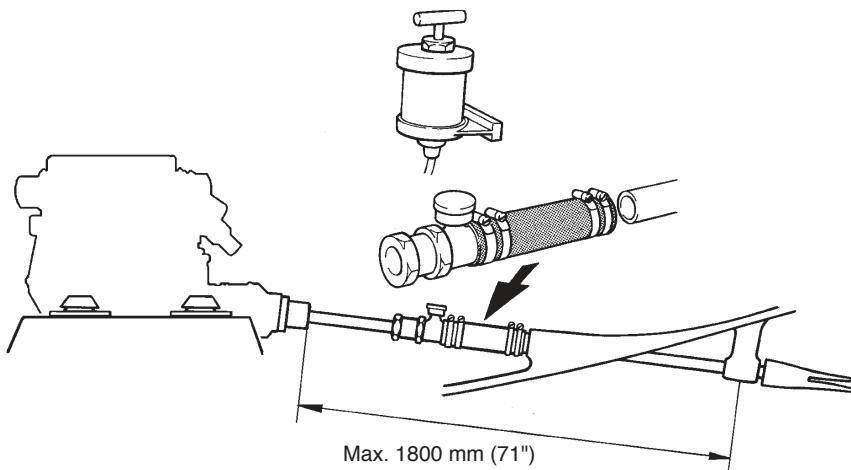


Flexible shaft seal

Volvo 'Penta water lubricated rubber type

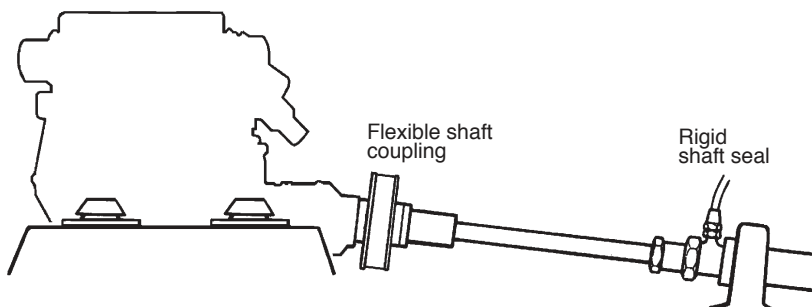


Grease lubricated shaft seal



When using a flexible shaft seal and flexible engine suspension, a flexible shaft coupling must **not** be fitted.

Rigid shaft seal



When using a rigid shaft seal and flexible engine suspension, a flexible shaft coupling must be fitted.